



2018

**MTCF**  
Michigan Traffic  
Crash Facts

# Michigan Traffic Crash Facts

## Reporting Criteria

Please pay particular attention to the wording when interpreting the three levels of data gathered for this report.

### Crash

The Crash Level analyzes data related to crash events and returns one result per crash.

Examples: Time, weather, and location.

### Units

The Units Level analyzes the experience of the units in the crash and returns one result per vehicle, driver, pedestrian, bicyclist, or train.

Examples: Vehicle type, driver condition, and unit events.

### People

The People Level analyzes the experience of the people involved in the crash and returns one result per occupant/person/party.

Examples: Age, injury severity, and seat belt or helmet use.

### **KABCO Injury Indicator:**

K = Killed

A = Suspected Serious Injury

B = Suspected Minor Injury

C = Possible Injury

O = No Injury

Property Damage Only (PDO)



## Leelanau County

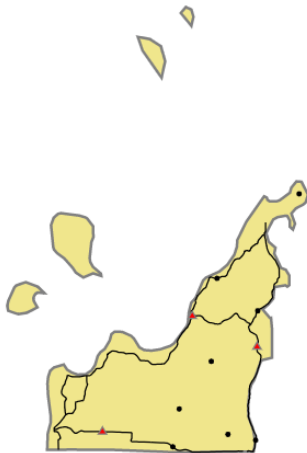
### 2018 Traffic Crash Data & 2014-2018 5-Year Trends



### Sources:

The crashes in this report occurred on public roadways in Michigan and resulted in injuries, fatalities, or property damage (with \$1,000 as a reporting threshold). The information was gathered from Michigan Traffic Crash Report Forms (UD-10) submitted by local police departments, sheriff's offices, and the Michigan State Police. Other related information was obtained from the departments of Transportation, State, and Community Health.

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Crashes by most severe injury (mapped/actual)

- ▲ K - Fatal (3/3)
- A - Suspected Serious (8/8)

## Leelanau County

In 2018:

There were 838 drivers involved in 680 motor vehicle crashes in Leelanau County. Of those crashes, 3 were classified as fatal, resulting in 4 fatalities. An additional 103 persons were injured.

Leelanau County experienced the highest number of motor vehicle crashes (80) in November, the highest number of fatal crashes (1) in March, May, and June, and the highest number of persons killed (2) in June.

Michigan driver statistics indicate 4.7 percent of licensed drivers in Leelanau County were age 16-20, and 9.9 percent of drivers in crashes were also in that age group.

## 2018 - Crashes and Injuries by Month

Month	Crashes				Persons	
	Total	Fatal	Injury	Property Damage Only (PDO)	Fatalities	Injuries
January	77	0	2	75	0	3
February	42	0	4	38	0	4
March	61	1	6	54	1	9
April	32	0	4	28	0	5
May	38	1	8	29	1	13
June	57	1	9	47	2	10
July	58	0	6	52	0	9
August	53	0	9	44	0	12
September	47	0	9	38	0	9
October	57	0	9	48	0	11
November	80	0	7	73	0	12
December	78	0	4	74	0	6
<b>Total</b>	<b>680</b>	<b>3</b>	<b>77</b>	<b>600</b>	<b>4</b>	<b>103</b>

## 2018 - Driver Statistics

Age Group	Leelanau County			Driver Rates	
	2018 Population	Licensed Drivers	Drivers in Crashes	Per 10k Population	Per 10k Licensed
0 - 15	3,038	135	0	0.0	0.0
16 - 20	1,001	900	83	829.2	922.2
21 - 24	823	798	54	656.1	676.7
25 - 64	10,171	10,475	497	488.6	474.5
65 +	6,731	6,705	173	257.0	258.0
Unknown	0	0	31	- -	- -
<b>Total</b>	<b>21,764</b>	<b>19,013</b>	<b>838</b>	<b>385.0</b>	<b>440.8</b>

## 2018 - Vehicles in Crashes

Vehicle Type	Motor Vehicles		Fatal Crashes		Injury Crashes	PDO Crashes
	Number of Vehicles	% of Total	Number	% of Total	Number	Number
Passenger car, SUV, van	667	79.6	3	75.0	81	583
Motor home	1	0.1	0	0.0	0	1
Pickup truck	125	14.9	0	0.0	17	108
Small truck under 10,000 lbs. GVWR	10	1.2	0	0.0	1	9
Motorcycle	9	1.1	1	25.0	7	1
Moped / goped	1	0.1	0	0.0	1	0
Go-cart / golf cart	0	0.0	0	0.0	0	0
Snowmobile	0	0.0	0	0.0	0	0
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	0	0.0	0	0.0	0	0
Other	2	0.2	0	0.0	1	1
Truck/bus over 10,000 lbs.	16	1.9	0	0.0	1	15
Unknown	7	0.8	0	0.0	0	7
<b>Total</b>	<b>838</b>	<b>100.0</b>	<b>4</b>	<b>100.0</b>	<b>109</b>	<b>725</b>

## 5-Year Trend - Crashes by Month

Month	2014		2015		2016		2017		2018	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
January	61	0	48	0	48	0	63	0	77	0
February	44	0	51	0	46	0	43	0	42	0
March	73	0	32	1	44	0	38	0	61	1
April	47	0	27	0	44	0	24	0	32	0
May	42	0	43	1	53	0	55	0	38	1
June	58	0	67	0	56	0	52	0	57	1
July	57	0	64	1	71	0	52	0	58	0
August	50	1	43	1	56	2	53	0	53	0
September	45	0	43	0	34	1	50	1	47	0
October	51	0	78	0	55	0	62	0	57	0
November	74	0	80	0	86	1	89	0	80	0
December	60	0	59	0	72	0	90	1	78	0
<b>Total</b>	<b>662</b>	<b>1</b>	<b>635</b>	<b>4</b>	<b>665</b>	<b>4</b>	<b>671</b>	<b>2</b>	<b>680</b>	<b>3</b>

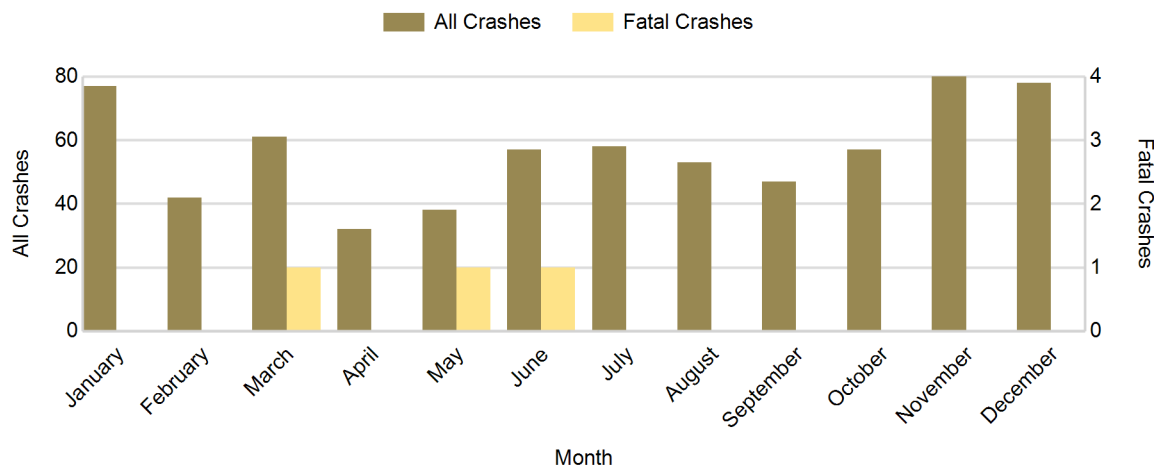
Note: † Indicates that the highest number of total crashes reported in the 5-year period occurred in the same month

## 5-Year Trend - Crashes by Day of Week

Day	2014		2015		2016		2017		2018	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Monday	113	0	86	0	80	0	106	1	84	1
Tuesday	91	0	71	0	91	1	86	0	113	1
Wednesday	84	0	98	0	102	0	100	0	88	0
Thursday	95	0	104	1	104	1	103	0	117	0
Friday	114	0	119	2	109	0	94	0	102	0
Saturday	89	1	95	1	93	1	104	1	102	1
Sunday	76	0	62	0	86	1	78	0	74	0
<b>Total</b>	<b>662</b>	<b>1</b>	<b>635</b>	<b>4</b>	<b>665</b>	<b>4</b>	<b>671</b>	<b>2</b>	<b>680</b>	<b>3</b>

Note: † Indicates that the highest number of total crashes reported in the 5-year period occurred on the same day of the week

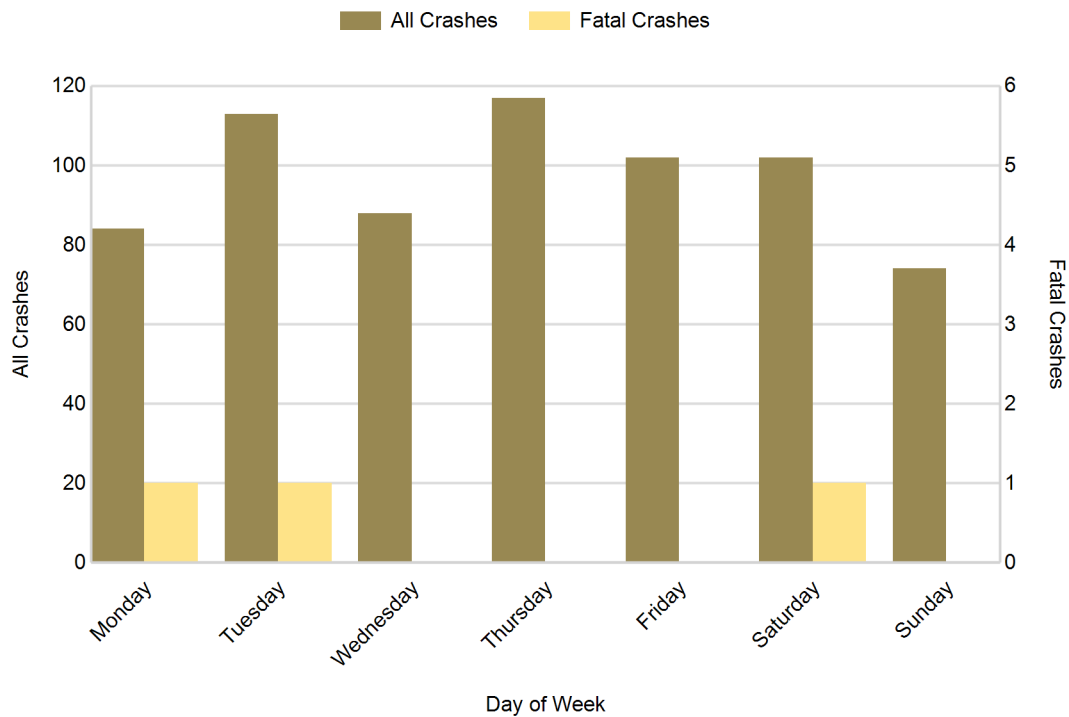
## 2018 Crashes by Month



## 2018 - Crashes by Day of Week

Day	All Crashes		Fatal Crashes		Injury Crashes			PDO Crashes
	Number	% of Total	Number	% of Fatal	A	B	C	Number
Monday	84	12.4	1	33.3	0	2	7	74
Tuesday	113	16.6	1	33.3	0	2	10	100
Wednesday	88	12.9	0	0.0	2	2	7	77
Thursday	117	17.2	0	0.0	4	4	6	103
Friday	102	15.0	0	0.0	0	6	6	90
Saturday	102	15.0	1	33.3	0	5	7	89
Sunday	74	10.9	0	0.0	2	2	3	67
<b>Total</b>	<b>680</b>	<b>100.0</b>	<b>3</b>	<b>100.0</b>	<b>8</b>	<b>23</b>	<b>46</b>	<b>600</b>

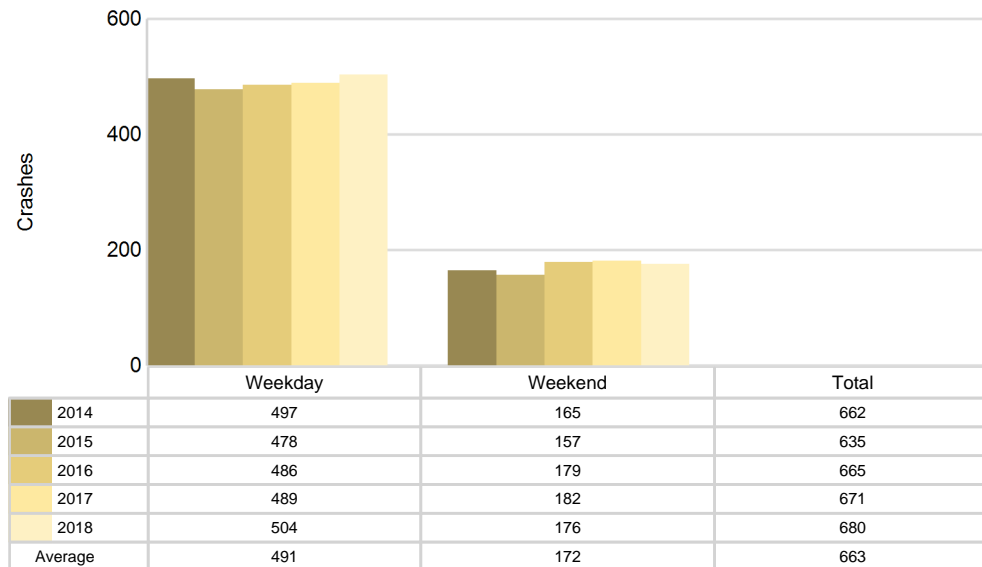
## 2018 Day of Week and Severity



## 5-Year Trend - Crashes by Weekday and Weekend

Portion of Week	2014		2015		2016		2017		2018	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Weekday	497	0	478	3	486	2	489	1	504	2
Weekend	165	1	157	1	179	2	182	1	176	1
<b>Total</b>	<b>662</b>	<b>1</b>	<b>635</b>	<b>4</b>	<b>665</b>	<b>4</b>	<b>671</b>	<b>2</b>	<b>680</b>	<b>3</b>

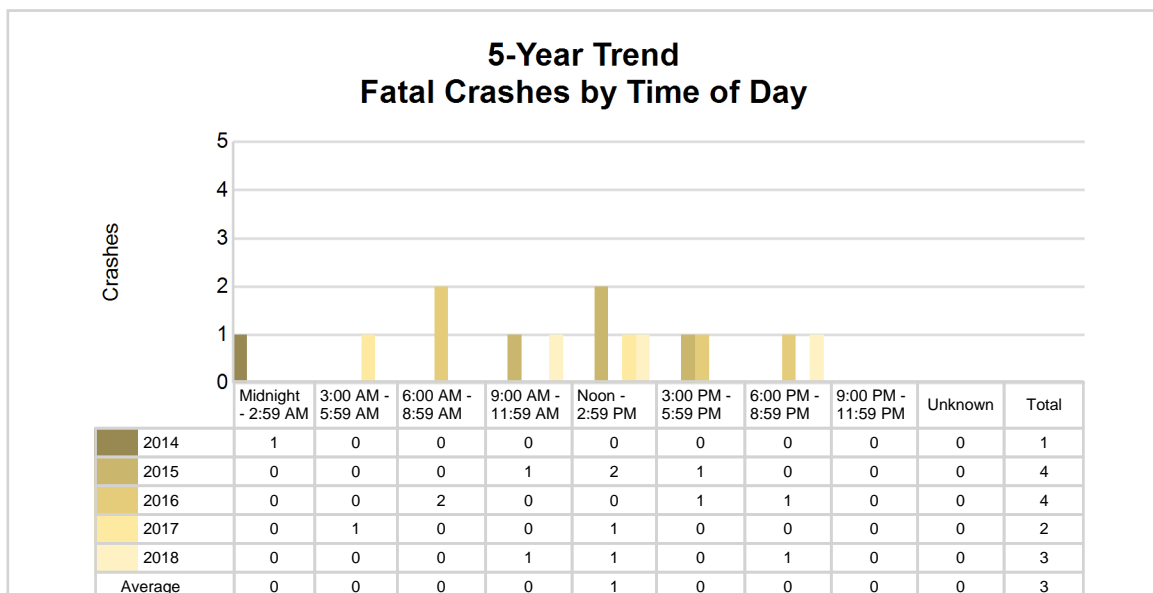
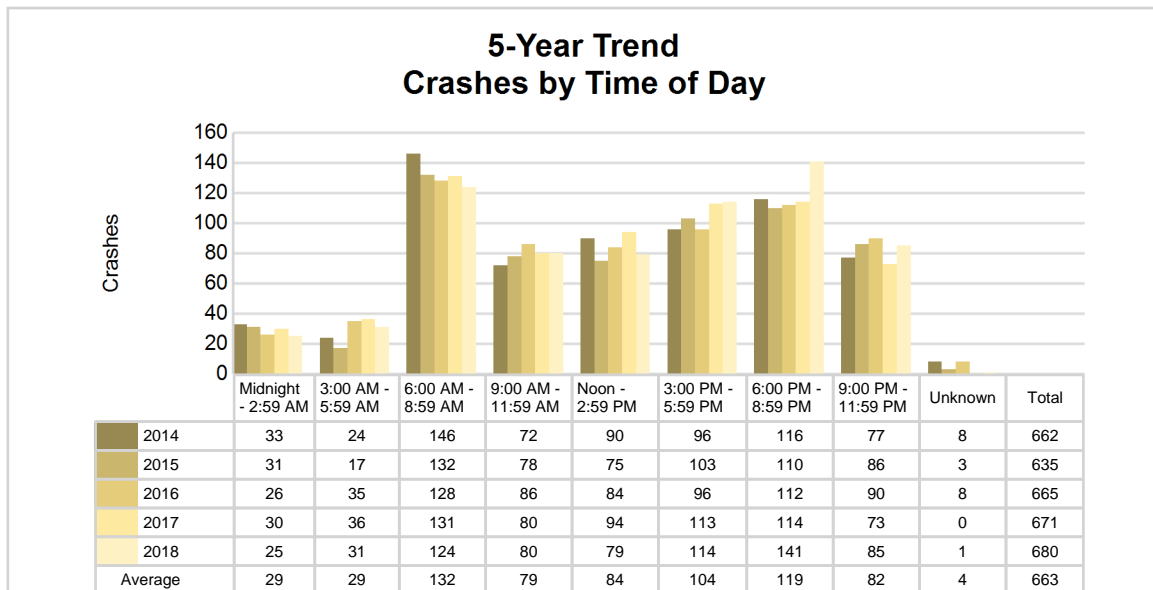
### 5-Year Crash Trends by Weekday (Monday - Friday) and Weekend (Saturday & Sunday)



## 5-Year Trend - Crashes by Time of Day

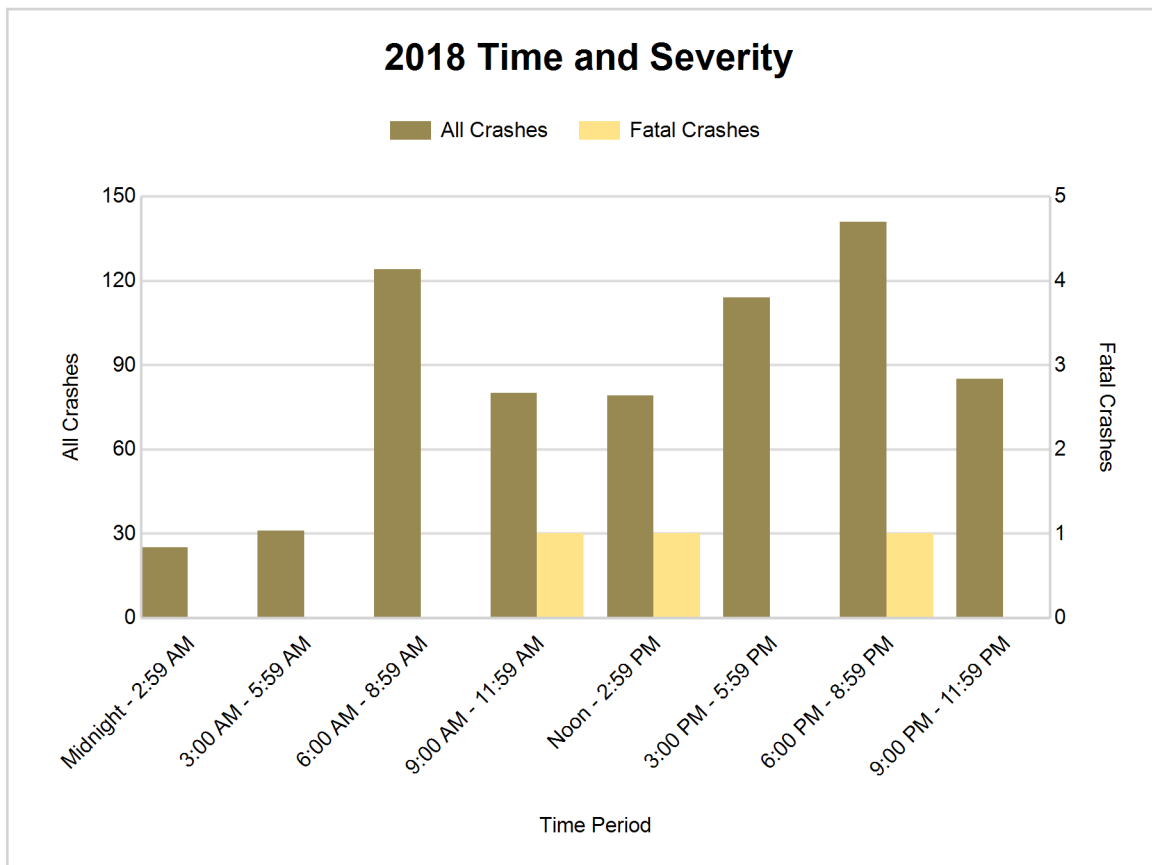
Time of Day	2014		2015		2016		2017		2018	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Midnight - 2:59 AM	33	1	31	0	26	0	30	0	25	0
3:00 AM - 5:59 AM	24	0	17	0	35	0	36	1	31	0
6:00 AM - 8:59 AM	146	0	132	0	128	2	131	0	124	0
9:00 AM - 11:59 AM	72	0	78	1	86	0	80	0	80	1
Noon - 2:59 PM	90	0	75	2	84	0	94	1	79	1
3:00 PM - 5:59 PM	96	0	103	1	96	1	113	0	114	0
6:00 PM - 8:59 PM	116	0	110	0	112	1	114	0	141	1
9:00 PM - 11:59 PM	77	0	86	0	90	0	73	0	85	0
Unknown	8	0	3	0	8	0	0	0	1	0
<b>Total</b>	<b>662</b>	<b>1</b>	<b>635</b>	<b>4</b>	<b>665</b>	<b>4</b>	<b>671</b>	<b>2</b>	<b>680</b>	<b>3</b>

Note: † Indicates that the highest number of total crashes reported in the 5-year period occurred in the same time period



## 2018 - Time and Severity

Time of Day	All Crashes		Fatal Crashes		Injury Crashes			PDO Crashes
	Number	% of Total	Number	% of Fatal	A	B	C	Number
Midnight - 2:59 AM	25	3.7	0	0.0	0	0	0	25
3:00 AM - 5:59 AM	31	4.6	0	0.0	0	1	3	27
6:00 AM - 8:59 AM	124	18.2	0	0.0	1	4	6	113
9:00 AM - 11:59 AM	80	11.8	1	33.3	0	4	10	65
Noon - 2:59 PM	79	11.6	1	33.3	0	4	9	65
3:00 PM - 5:59 PM	114	16.8	0	0.0	2	3	9	100
6:00 PM - 8:59 PM	141	20.7	1	33.3	3	5	4	128
9:00 PM - 11:59 PM	85	12.5	0	0.0	2	2	5	76
Unknown	1	0.1	0	0.0	0	0	0	1
<b>Total</b>	<b>680</b>	<b>100.0</b>	<b>3</b>	<b>100.0</b>	<b>8</b>	<b>23</b>	<b>46</b>	<b>600</b>

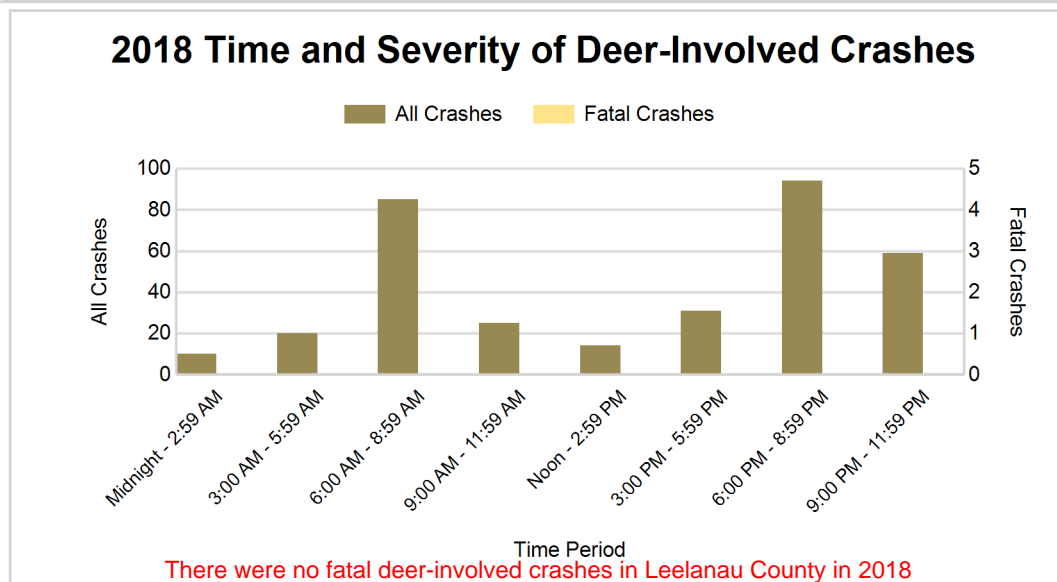
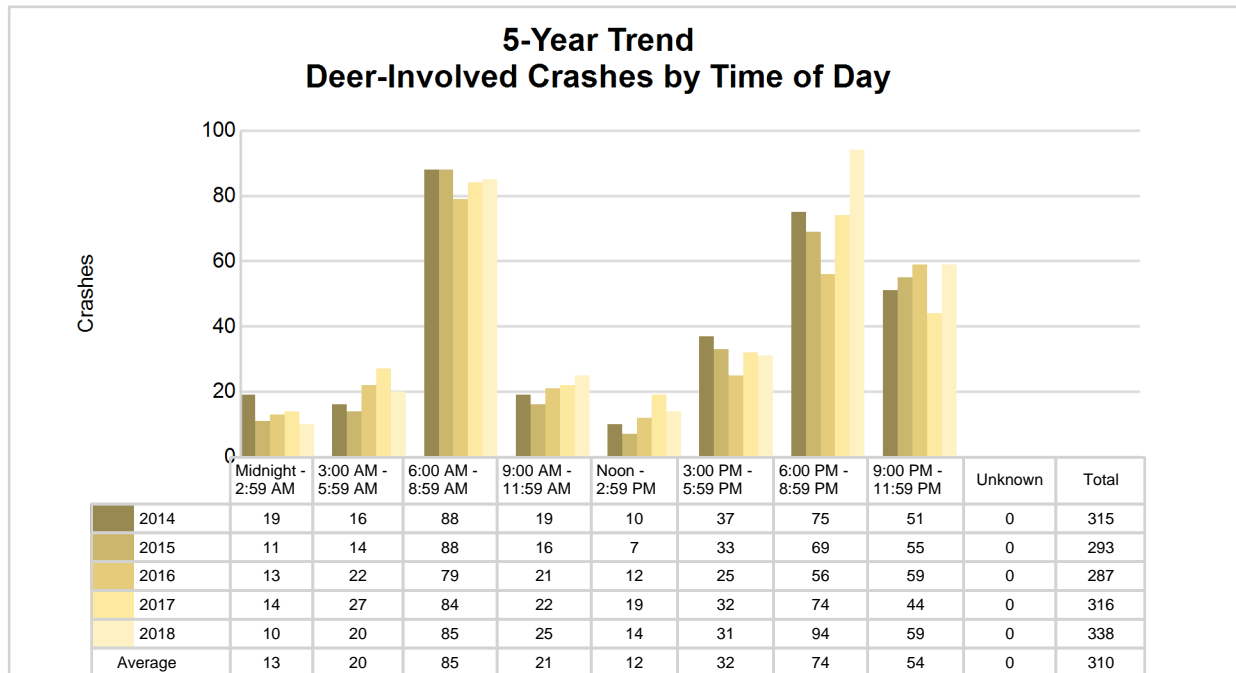




## 5-Year Trend - Deer-Involved Crashes by Time of Day

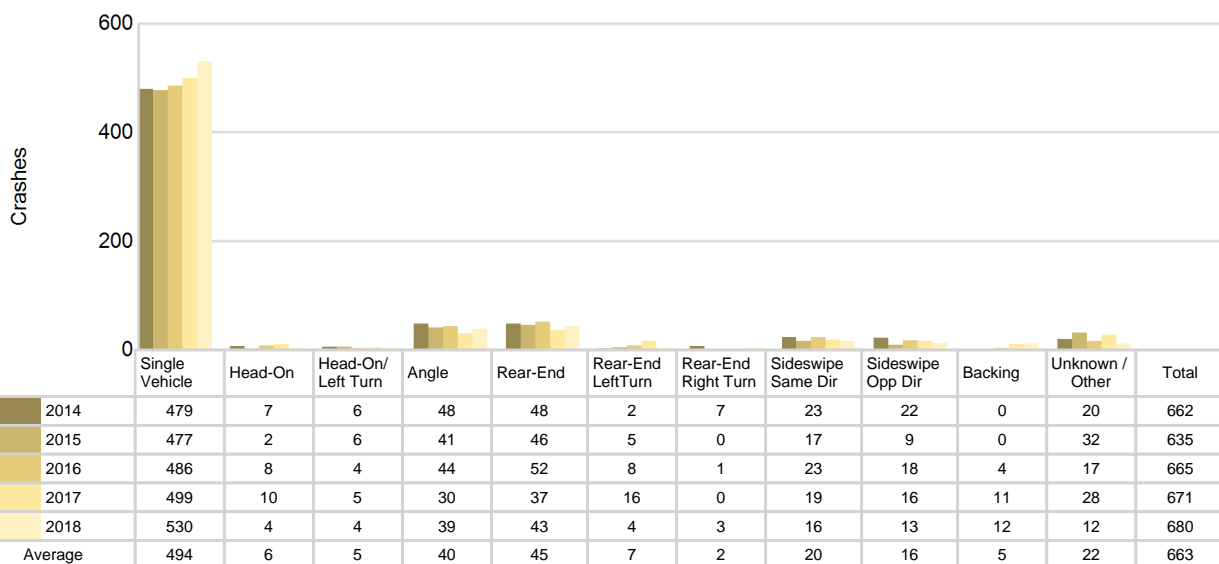
Time of Day	2014		2015		2016		2017		2018	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Midnight - 2:59 AM	19	0	11	0	13	0	14	0	10	0
3:00 AM - 5:59 AM	16	0	14	0	22	0	27	0	20	0
6:00 AM - 8:59 AM	88	0	88	0	79	0	84	0	85	0
9:00 AM - 11:59 AM	19	0	16	0	21	0	22	0	25	0
Noon - 2:59 PM	10	0	7	0	12	0	19	0	14	0
3:00 PM - 5:59 PM	37	0	33	0	25	0	32	0	31	0
6:00 PM - 8:59 PM	75	0	69	0	56	0	74	0	94	0
9:00 PM - 11:59 PM	51	0	55	0	59	0	44	0	59	0
Unknown	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>315</b>	<b>0</b>	<b>293</b>	<b>0</b>	<b>287</b>	<b>0</b>	<b>316</b>	<b>0</b>	<b>338</b>	<b>0</b>

Note: † Indicates that the highest number of total crashes reported in the 5-year period occurred in the same time period



## 5-Year Trend - Crashes by Crash Type

Crash Type	2014		2015		2016		2017		2018	
	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes	Total Crashes	Fatal Crashes
Single motor vehicle	479	0	477	2	486	1	499	1	530	2
Head-on	7	0	2	0	8	0	10	1	4	0
Head-on / left turn	6	0	6	1	4	0	5	0	4	0
Angle	48	1	41	1	44	2	30	0	39	1
Rear-end	48	0	46	0	52	0	37	0	43	0
Rear-end left turn	2	0	5	0	8	0	16	0	4	0
Rear-end right turn	7	0	0	0	1	0	0	0	3	0
Sideswipe same direction	23	0	17	0	23	0	19	0	16	0
Sideswipe opposite direction	22	0	9	0	18	1	16	0	13	0
Backing	0	0	0	0	4	0	11	0	12	0
Other / Unknown	20	0	32	0	17	0	28	0	12	0
Uncoded and Errors	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>662</b>	<b>1</b>	<b>635</b>	<b>4</b>	<b>665</b>	<b>4</b>	<b>671</b>	<b>2</b>	<b>680</b>	<b>3</b>

5-Year Trend  
Crashes by Crash Type

# Leelanau County (continued)

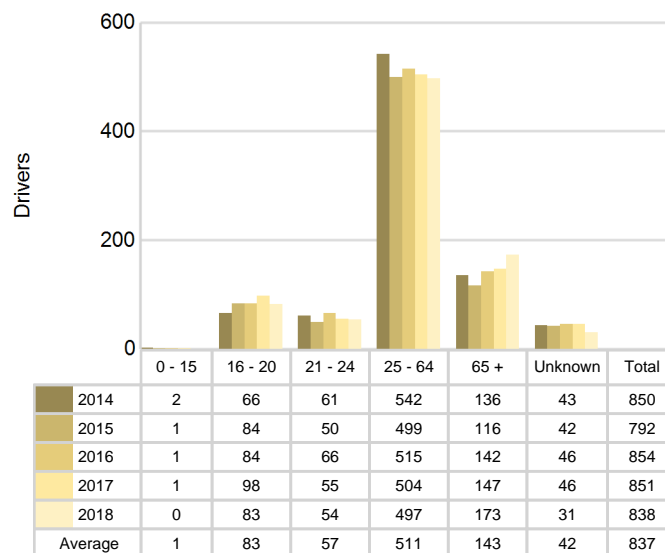
## 2018 - Reported Motor Vehicle Crashes by Municipality

Municipality	Crashes											Persons	
	Total	Fatal	Injury	Property Damage	Inter-state	US Route	State Route	Local Street	Alcohol-Involved	Drug-Involved	Deer-Involved	Fatalities	Injuries
Bingham Twp.	64	1	2	61	0	0	23	41	3	1	39	2	5
Centerville Twp.	54	0	7	47	0	0	4	50	5	0	36	0	10
Cleveland Twp.	28	0	1	27	0	0	14	14	1	1	19	0	1
Elmwood Twp.	98	0	11	87	0	0	43	55	4	2	34	0	15
Empire	6	0	1	5	0	0	6	0	0	0	4	0	4
Empire Twp.	46	1	7	38	0	0	35	11	1	0	29	1	12
Glen Arbor Twp.	41	0	5	36	0	0	29	12	2	0	19	0	5
Kasson Twp.	51	0	8	43	0	0	6	45	4	1	28	0	9
Leelanau Twp.	44	0	6	38	0	0	28	16	2	0	25	0	6
Leland Twp.	64	1	4	59	0	0	46	18	1	0	28	1	6
Northport	11	0	0	11	0	0	10	1	0	0	9	0	0
Solon Twp.	82	0	13	69	0	0	26	56	7	1	44	0	15
Suttons Bay	24	0	6	18	0	0	18	6	0	0	4	0	9
Suttons Bay Twp.	49	0	5	44	0	0	28	21	7	2	16	0	5
Traverse City	18	0	1	17	0	0	18	0	1	0	4	0	1
Unknown Community	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>680</b>	<b>3</b>	<b>77</b>	<b>600</b>	<b>0</b>	<b>0</b>	<b>334</b>	<b>346</b>	<b>38</b>	<b>8</b>	<b>338</b>	<b>4</b>	<b>103</b>

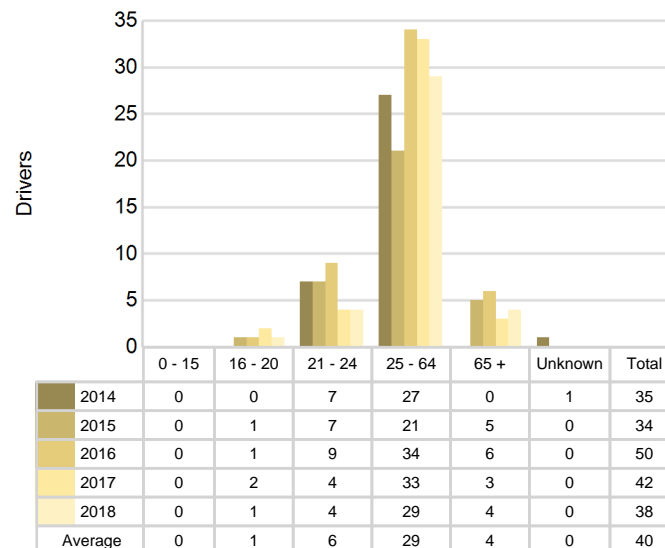
## 5-Year Trend - Drivers in Crashes Coded Drinking by Driver Age

Driver Age	2014		2015		2016		2017		2018	
	Total Drivers in Crashes	Total Drivers Coded Drinking	Total Drivers in Crashes	Total Drivers Coded Drinking	Total Drivers in Crashes	Total Drivers Coded Drinking	Total Drivers in Crashes	Total Drivers Coded Drinking	Total Drivers in Crashes	Total Drivers Coded Drinking
0 - 15	2	0	1	0	1	0	1	0	0	0
16 - 20	66	0	84	1	84	1	98	2	83	1
21 - 24	61	7	50	7	66	9	55	4	54	4
25 - 64	542	27	499	21	515	34	504	33	497	29
65 +	136	0	116	5	142	6	147	3	173	4
Unknown	43	1	42	0	46	0	46	0	31	0
<b>Total</b>	<b>850</b>	<b>35</b>	<b>792</b>	<b>34</b>	<b>854</b>	<b>50</b>	<b>851</b>	<b>42</b>	<b>838</b>	<b>38</b>

### 5-Year Trend Total Drivers in Crashes by Age



### 5-Year Trend Total Drivers Coded Drinking by Age



## 2018 - Bodily Alcohol Concentration (BAC) Results Among All Vehicle Drivers in Alcohol-Involved Crashes by Age

Age Group	Drivers				BAC Result Range for Drivers Coded Drinking				
	Total Drivers in Alcohol-Involved Crashes	Total Drivers Tested in all Crashes	Total Drivers Coded Drinking, Tested	Total Drivers Coded Drinking	BAC = 0.00	BAC 0.01 g/dL to 0.07 g/dL	BAC 0.08 g/dL to 0.16 g/dL	BAC 0.17 g/dL and Above	BAC Not Reported
0 - 15	0	0	0	0	0	0	0	0	0
16 - 20	1	3	1	1	0	1	0	0	0
21 - 24	4	6	3	4	0	0	1	2	1
25 - 64	32	35	21	29	0	3	8	6	12
65 +	4	6	4	4	0	0	3	1	0
Unknown	1	0	0	0	0	0	0	0	0
<b>Total</b>	<b>42</b>	<b>50</b>	<b>29</b>	<b>38</b>	<b>0</b>	<b>4</b>	<b>12</b>	<b>9</b>	<b>13</b>

Notes: BAC measured in grams (g) per deciliter (dL).

BAC may not be reported if drivers are not tested or if the results are not available immediately (as in the case of a blood test).

A driver may be coded by the officer as drinking even though no test is administered.

## Alcohol-Involved Crashes

In 2018, there were 42 drivers in alcohol-involved crashes; 38 (90.5%) of those drivers were coded as had-been-drinking by the officer on the crash form.

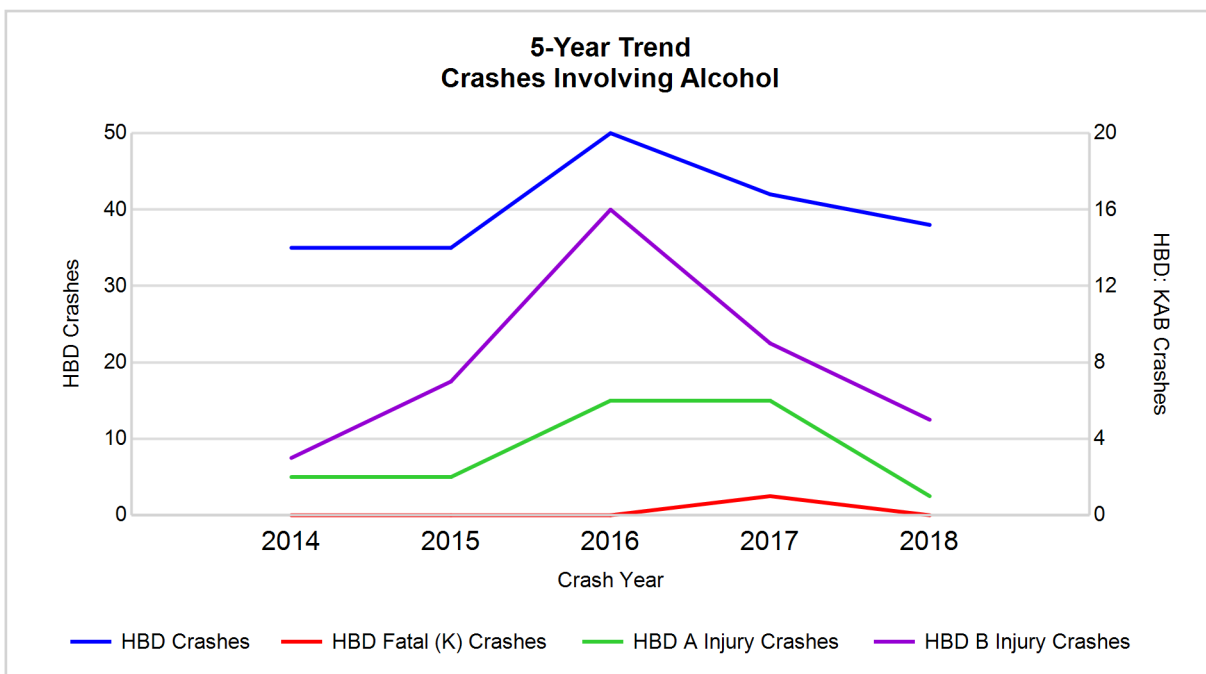
- 21 (55.3%) of the 38 drivers had a blood alcohol concentration (BAC) of 0.08 g/dL (grams per deciliter) or greater, and 9 (42.9%) of the 21 drivers had a BAC at or above 0.17 g/dL.
- 29 (76.3%) of the 38 drivers were coded as had-been-drinking and were tested for alcohol consumption.

## 5-Year Trend - Crashes Involving Alcohol

Year	All Crashes	HBD Crashes	% HBD	Fatal Crashes	HBD Fatal Crashes	% HBD	A Injury Crashes	HBD A Injury Crashes	% HBD	B Injury Crashes	HBD B Injury Crashes	% HBD
2014	662	35	5.3	1	0	0.0	8	2	25.0	10	3	30.0
2015	635	35	5.5	4	0	0.0	9	2	22.2	25	7	28.0
2016	665	50	7.5	4	0	0.0	11	6	54.5	51	16	31.4
2017	671	42	6.3	2	1	50.0	18	6	33.3	30	9	30.0
2018	680**	38	5.6	3	0	0.0	8	1*	12.5*	23	5	21.7*

Note: \* Indicates that the most recent year is the lowest number or percentage reported in the 5-year period in that column

\*\* Indicates that the most recent year is the highest number or percentage reported in the 5-year period in that column



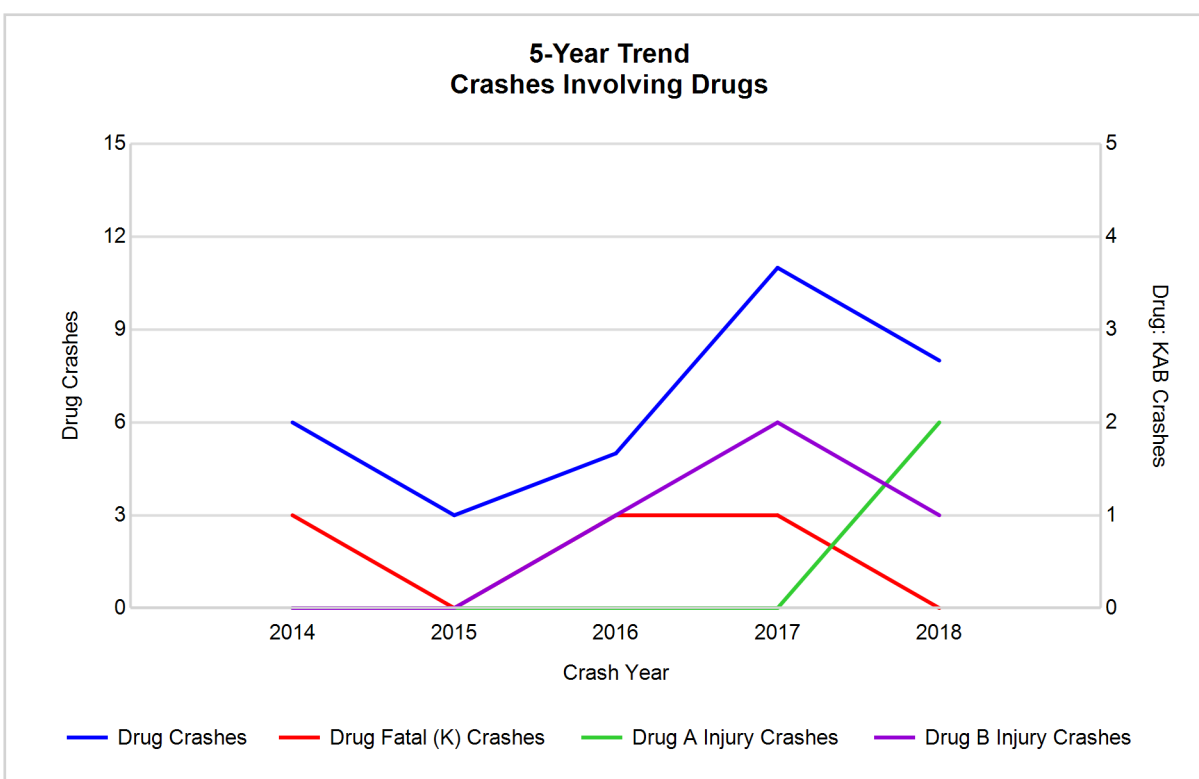
Note: Had-Been-Drinking (HBD)

## 5-Year Trend - Crashes Involving Drugs

Year	All Crashes	Drug Crashes	% Drug	Fatal Crashes	Drug Fatal Crashes	% Drug	A Injury Crashes	Drug A Injury Crashes	% Drug	B Injury Crashes	Drug B Injury Crashes	% Drug
2014	662	6	0.9	1	1	100.0	8	0	0.0	10	0	0.0
2015	635	3	0.5	4	0	0.0	9	0	0.0	25	0	0.0
2016	665	5	0.8	4	1	25.0	11	0	0.0	51	1	2.0
2017	671	11	1.6	2	1	50.0	18	0	0.0	30	2	6.7
2018	680**	8	1.2	3	0	0.0	8	2**	25.0**	23	1	4.3

Note: \* Indicates that the most recent year is the lowest number or percentage reported in the 5-year period in that column

\*\* Indicates that the most recent year is the highest number or percentage reported in the 5-year period in that column

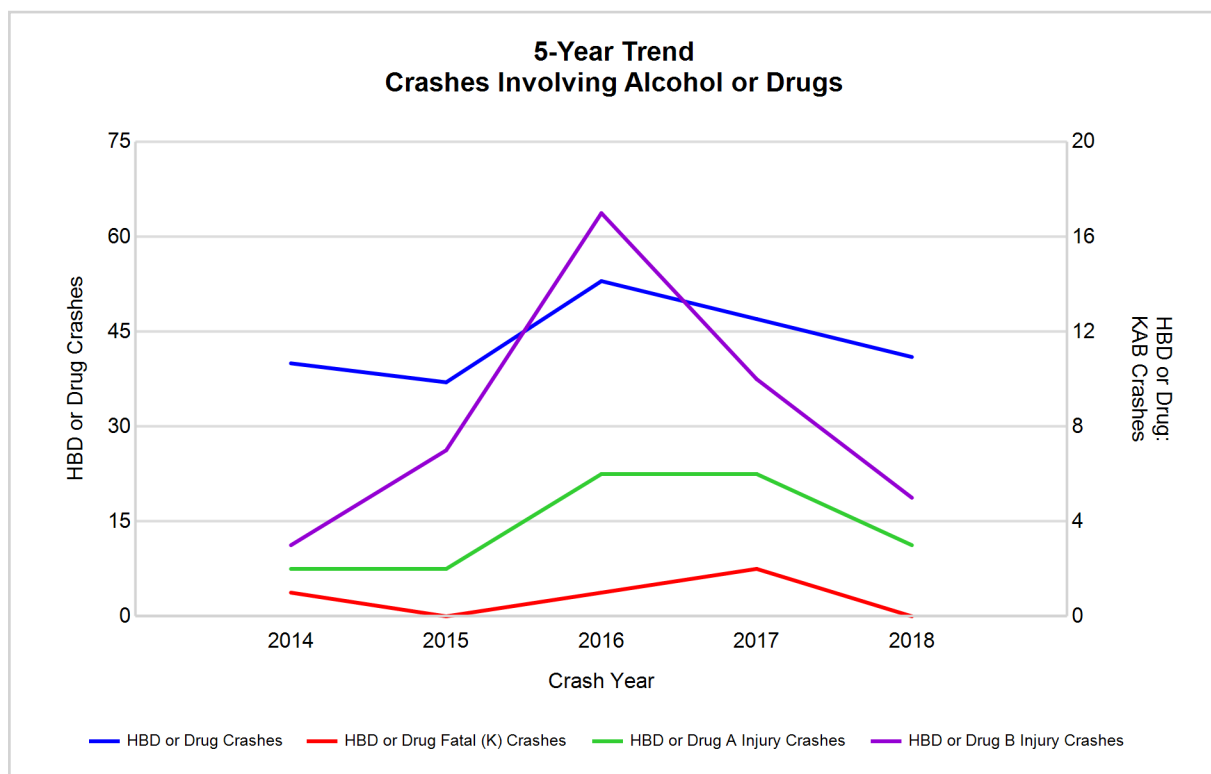


## 5-Year Trend - Crashes Involving Alcohol or Drugs

Year	All Crashes	HBD or Drug Crashes	% HBD or Drug	Fatal Crashes	HBD or Drug Fatal Crashes	% HBD or Drug	A Injury Crashes	HBD or Drug A Injury Crashes	% HBD or Drug	B Injury Crashes	HBD or Drug B Injury Crashes	% HBD or Drug
2014	662	40	6.0	1	1	100.0	8	2	25.0	10	3	30.0
2015	635	37	5.8	4	0	0.0	9	2	22.2	25	7	28.0
2016	665	53	8.0	4	1	25.0	11	6	54.5	51	17	33.3
2017	671	47	7.0	2	2	100.0	18	6	33.3	30	10	33.3
2018	680**	41	6.0	3	0	0.0	8	3	37.5	23	5	21.7*

Note: \* Indicates that the most recent year is the lowest number or percentage reported in the 5-year period in that column

\*\* Indicates that the most recent year is the highest number or percentage reported in the 5-year period in that column



Note: Had-Been-Drinking (HBD)

## 2018 - Restraints Worn Among Vehicle Drivers and Injured Passengers by Vehicle Type

Vehicle Type	Total Occupants			Fatalities			A - Suspected Serious			B - Suspected Minor			C - Possible Injury			No Injury		
	Total	Used Restraint	%	Total	Used Restraint	%	Total	Used Restraint	%	Total	Used Restraint	%	Total	Used Restraint	%	Total	Used Restraint	%
Passenger car, SUV, van	684	651	95.2	3	3	100.0	3	3	100.0	21	21	100.0	48	47	97.9	590	577	97.8
Motor home	1	1	100.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	1	1	100.0
Pickup truck	127	115	90.6	0	0	0.0	2	1	50.0	2	2	100.0	8	7	87.5	110	105	95.5
Small truck under 10,000 lbs. GVWR	10	9	90.0	0	0	0.0	0	0	0.0	0	0	0.0	1	1	100.0	9	8	88.9
Motorcycle	11	9	81.8	1	1	100.0	5	3	60.0	2	2	100.0	2	2	100.0	1	1	100.0
Moped / goped	1	1	100.0	0	0	0.0	0	0	0.0	0	0	0.0	1	1	100.0	0	0	0.0
Go-cart / golf cart	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0
Snowmobile	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0
Off-Road Vehicle - ORV / All-Terrain Vehicle - ATV	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0
Other	3	2	66.7	0	0	0.0	0	0	0.0	0	0	0.0	2	1	50.0	1	1	100.0
Truck/bus over 10,000 lbs.	16	16	100.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	16	16	100.0
Unknown	7	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0
<b>Total</b>	<b>860</b>	<b>804</b>	<b>93.5</b>	<b>4</b>	<b>4</b>	<b>0.0</b>	<b>10</b>	<b>7</b>	<b>70.0</b>	<b>25</b>	<b>25</b>	<b>100.0</b>	<b>62</b>	<b>59</b>	<b>95.2</b>	<b>728</b>	<b>709</b>	<b>97.4</b>

Note: Restraint Use includes shoulder belt only used, lap belt only used, both lap and shoulder belts used, child restraint used, restraint failure, and helmet worn.

## 2018 - Restraints Worn Among Vehicle Drivers and Injured Passengers by Age

Age Group	Total Occupants			Fatalities			A - Suspected Serious			B - Suspected Minor			C - Possible Injury			No Injury		
	Total	Used Restraint	%	Total	Used Restraint	%	Total	Used Restraint	%	Total	Used Restraint	%	Total	Used Restraint	%	Total	Used Restraint	%
0 - 15	7	7	100.0	1	1	100.0	1	1	100.0	1	1	100.0	4	4	100.0	0	0	0.0
16 - 20	84	83	98.8	0	0	0.0	0	0	0.0	1	1	100.0	8	8	100.0	75	74	98.7
21 - 24	54	50	92.6	0	0	0.0	0	0	0.0	2	2	100.0	5	5	100.0	47	43	91.5
25 - 64	507	489	96.4	1	1	100.0	9	6	66.7	17	17	100.0	34	31	91.2	446	434	97.3
65 +	177	175	98.9	2	2	100.0	0	0	0.0	4	4	100.0	11	11	100.0	160	158	98.8
Unknown	31	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0
<b>Total</b>	<b>860</b>	<b>804</b>	<b>93.5</b>	<b>4</b>	<b>4</b>	<b>0.0</b>	<b>10</b>	<b>7</b>	<b>70.0</b>	<b>25</b>	<b>25</b>	<b>100.0</b>	<b>62</b>	<b>59</b>	<b>95.2</b>	<b>728</b>	<b>709</b>	<b>97.4</b>

Note: Restraint Use includes shoulder belt only used, lap belt only used, both lap and shoulder belts used, child restraint used, restraint failure, and helmet worn.



## 5-Year Trend - Restraint Use Among Drivers

Restraint Use	2014			2015			2016			2017			2018		
	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers
No belts available	12	0	0	14	0	1	4	0	2	2	0	0	3	0	0
Shoulder belt only used	5	0	0	0	0	0	1	0	0	7	0	1	5	0	1
Lap belt only used	2	0	0	2	0	0	1	0	0	3	0	1	1	0	0
Both lap & shoulder belts used	757	0	50	694	1	54	758	2	74	769	1	81	770	1	66
No belts used	7	0	4	17	0	7	18	0	9	8	2	3	3	0	1
Child restraint used	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Child restraint not used, unavailable or improper use	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Restraint failure	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0
Restraint use unknown	14	0	2	9	0	0	46	1	2	56	0	1	46	0	1
Helmet worn	6	0	5	9	2	6	8	0	7	2	0	2	9	1	7
Helmet not worn	0	0	0	4	0	3	4	1	3	3	0	2	1	0	1
Helmet use unknown	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0
Uncoded & errors	44	0	0	41	0	0	14	0	0	1	0	0	0	0	0
<b>Total</b>	<b>850</b>	<b>1</b>	<b>62</b>	<b>792</b>	<b>3</b>	<b>71</b>	<b>854</b>	<b>4</b>	<b>97</b>	<b>851</b>	<b>3</b>	<b>91</b>	<b>838</b>	<b>2</b>	<b>77</b>

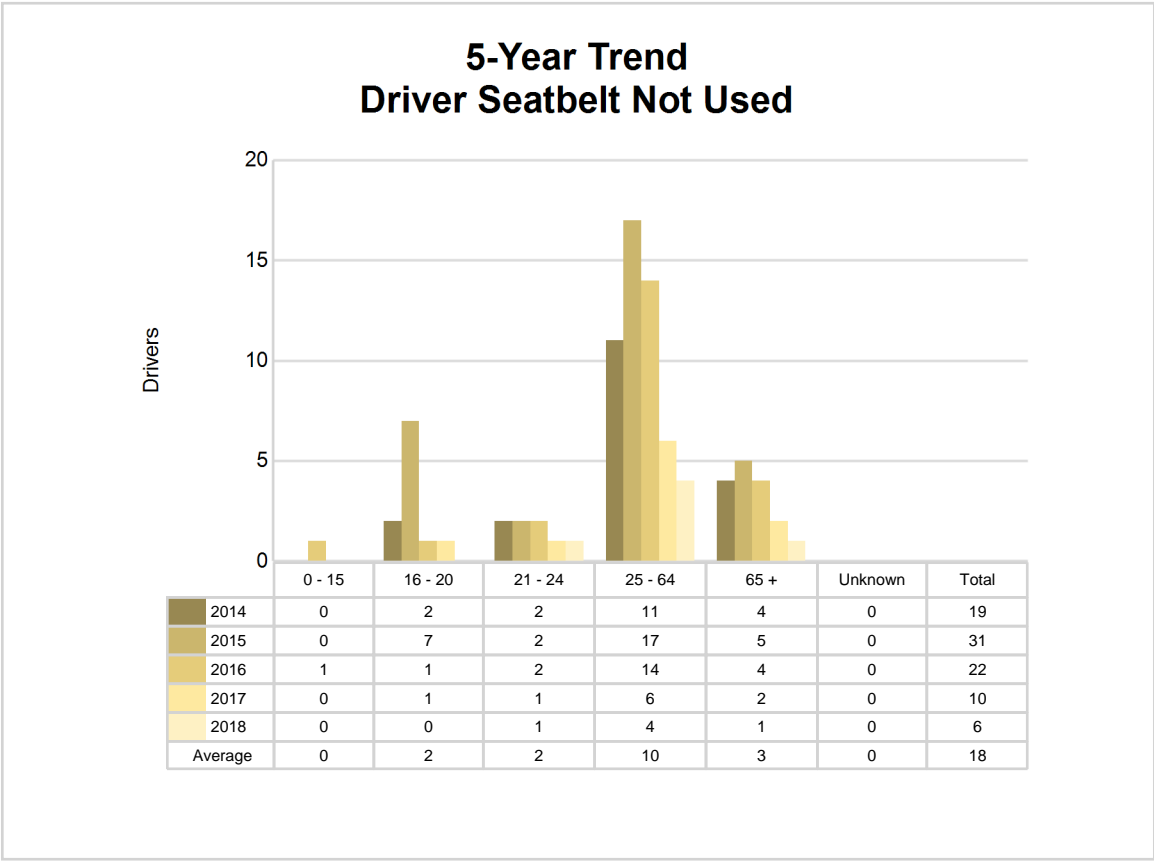
## 5-Year Trend - Restraint Use Among Drivers Coded Drinking

Restraint Use	2014			2015			2016			2017			2018		
	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers
No belts available	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
Shoulder belt only used	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Lap belt only used	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Both lap & shoulder belts used	25	0	5	26	0	8	33	0	10	30	0	8	27	0	7
No belts used	1	0	1	3	0	2	5	0	5	4	1	3	2	0	0
Child restraint used	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Child restraint not used, unavailable or improper use	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Restraint failure	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Restraint use unknown	6	0	1	3	0	0	7	0	2	6	0	0	8	0	1
Helmet worn	1	0	1	1	0	1	2	0	2	0	0	0	1	0	1
Helmet not worn	0	0	0	1	0	1	2	0	2	2	0	1	0	0	0
Helmet use unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Uncoded & errors	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>35</b>	<b>0</b>	<b>8</b>	<b>34</b>	<b>0</b>	<b>12</b>	<b>50</b>	<b>0</b>	<b>22</b>	<b>42</b>	<b>1</b>	<b>12</b>	<b>38</b>	<b>0</b>	<b>9</b>

5-Year Trend - Seatbelt Not Used Among Drivers by Age

Age Group	2014			2015			2016			2017			2018		
	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers
0 - 15	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0
16 - 20	2	0	1	7	0	3	1	0	0	1	0	0	0	0	0
21 - 24	2	0	0	2	0	1	2	0	1	1	1	0	1	0	0
25 - 64	11	0	3	17	0	4	14	0	7	6	0	3	4	0	1
65 +	4	0	0	5	0	0	4	0	2	2	1	0	1	0	0
Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	19	0	4	31	0	8	22	0	11	10	2	3	6	0	1

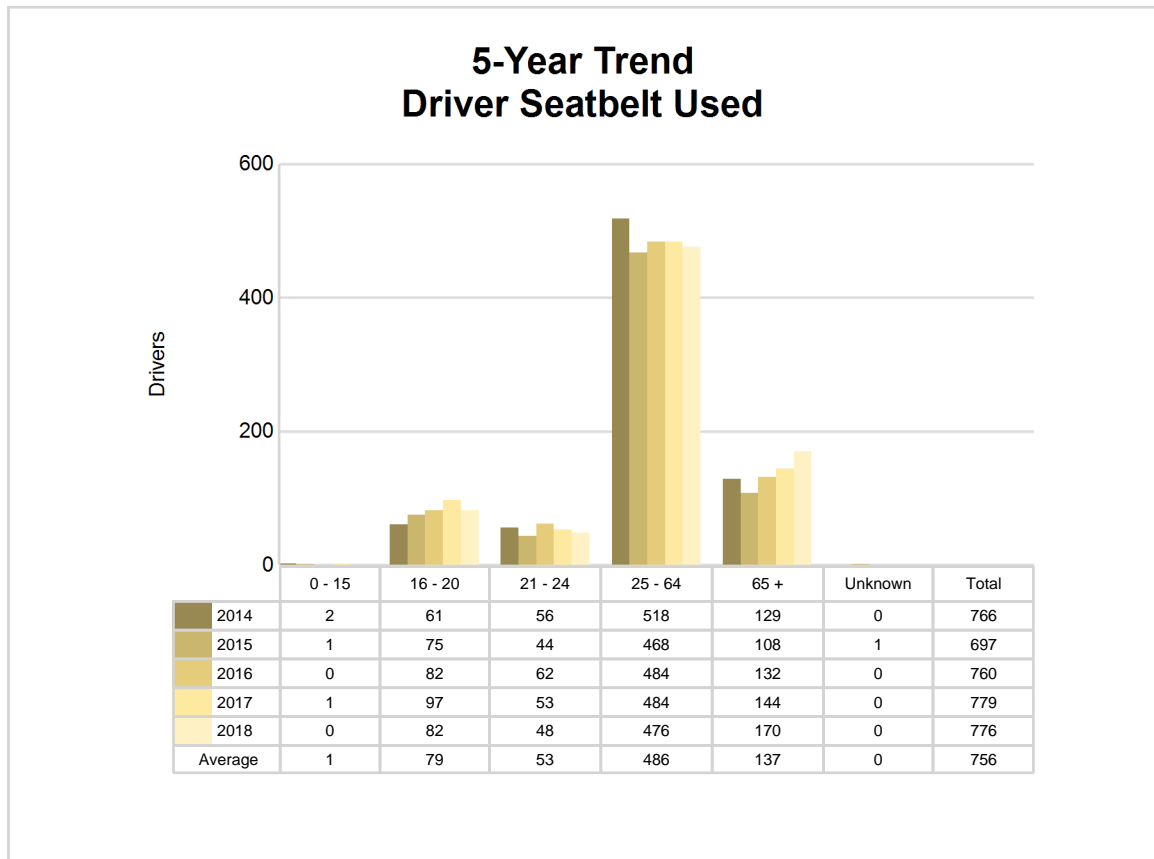
Note: Seatbelt Not Used includes no belts available or no belts used.



## 5-Year Trend - Seatbelt Used Among Drivers by Age

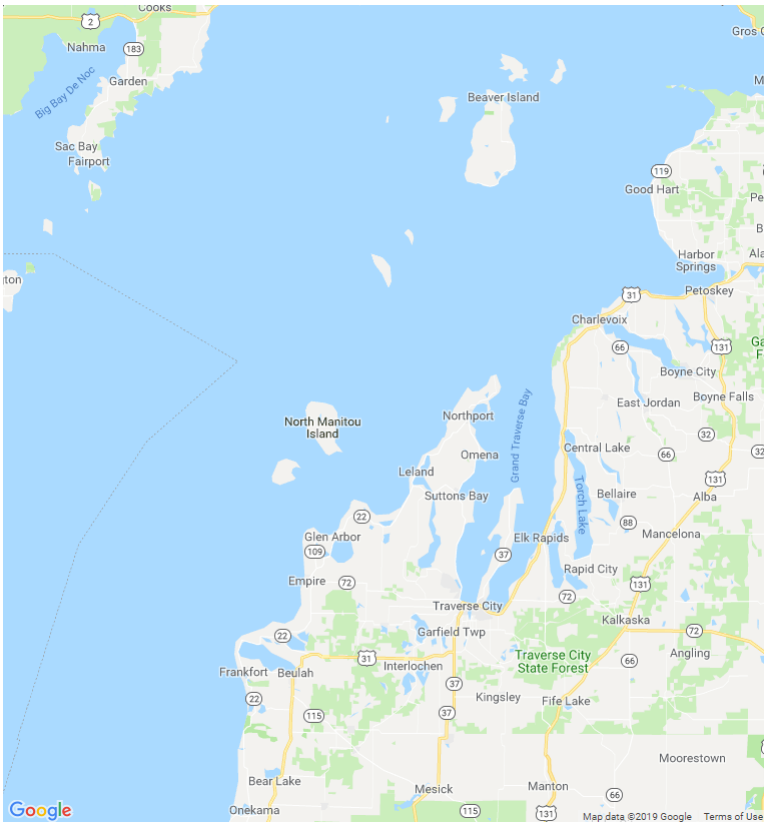
Age Group	2014			2015			2016			2017			2018		
	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers	Drivers	Fatal Drivers	Injured Drivers
0 - 15	2	0	0	1	0	0	0	0	0	1	0	0	0	0	0
16 - 20	61	0	4	75	0	6	82	0	11	97	0	14	82	0	8
21 - 24	56	0	6	44	0	7	62	0	6	53	0	8	48	0	6
25 - 64	518	1	29	468	0	34	484	2	37	484	1	50	476	0	42
65 +	129	0	11	108	1	7	132	0	20	144	0	11	170	1	11
Unknown	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>766</b>	<b>1</b>	<b>50</b>	<b>697</b>	<b>1</b>	<b>54</b>	<b>760</b>	<b>2</b>	<b>74</b>	<b>779</b>	<b>1</b>	<b>83</b>	<b>776</b>	<b>1</b>	<b>67</b>

Note: Seatbelt Used includes shoulder belt only used, lap belt only used, both lap and shoulder belts used, and restraint failure.



## 5-Year Trend - Drivers in Crashes by Hazardous Action

Hazardous Action	2014		2015		2016		2017		2018	
	Total Drivers in Crashes	Drivers in Fatal Crashes	Total Drivers in Crashes	Drivers in Fatal Crashes	Total Drivers in Crashes	Drivers in Fatal Crashes	Total Drivers in Crashes	Drivers in Fatal Crashes	Total Drivers in Crashes	Drivers in Fatal Crashes
None	521	1	475	2	487	3	513	2	524	1
Speed too fast	116	0	111	1	140	2	130	1	112	1
Speed too slow	0	0	4	0	1	0	1	0	1	0
Failed to yield	36	0	38	2	50	0	36	0	40	0
Disregard traffic control	4	0	1	0	4	2	2	0	3	1
Drove wrong way	0	0	0	0	1	0	0	0	1	0
Drove left of center	6	0	1	0	8	0	6	1	5	1
Improper passing	12	0	4	0	7	0	5	0	7	0
Improper lane use	6	0	7	0	5	0	6	0	5	0
Improper turn	4	0	6	0	1	0	3	0	6	0
Improper/no signal	2	0	0	0	0	0	0	0	1	0
Improper backing	8	0	19	0	12	0	15	0	12	0
Unable to stop in assured clear distance	43	0	34	0	47	0	48	0	51	0
Other	46	0	51	0	30	0	38	0	26	0
Unknown	8	0	12	1	19	0	19	0	15	0
Reckless driving	3	1	3	0	3	0	3	0	1	0
Careless/negligent driving	30	0	24	0	39	0	23	0	28	0
Uncoded & errors	5	0	2	0	0	0	3	0	0	0
<b>Total</b>	<b>850</b>	<b>2</b>	<b>792</b>	<b>6</b>	<b>854</b>	<b>7</b>	<b>851</b>	<b>4</b>	<b>838</b>	<b>4</b>



In 2018, there were no alcohol-involved fatal crashes in Leelanau County.

In 2018, there were 38 alcohol-involved crashes in Leelanau County:

- 0 K - Fatal Crashes
- 1 A - Suspected Serious Injury Crash
- 5 B - Suspected Minor Injury Crashes
- 4 C - Possible Injury Crashes
- 28 O - Property Damage Only/No Injury Crashes

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